BOLTON, Clair Louise
BAppSc (Hon) (QUT)
Thesis Title:
Development of a Rep-inducible, BBTV-based expression system in banana.
Supervisors:
Prof James Dale (Principal)
Assoc Prof Robert Harding (Associate)
Citation:

This thesis was a step towards the development of a control strategy for Banana bunchy top virus, which causes the most economically important virus disease of banana worldwide. The control strategy involved the development and assessment of a novel system which is specifically activated in banana plants upon virus infection and results in the death of infected cells, thus preventing virus spread. Preliminary evidence obtained from this study suggests that this approach has the potential to effectively control Banana bunchy top virus, which continues to pose a threat to world banana production and for which there are generally no effective control strategies available. In addition to its utility as a virus control strategy, the system could also be exploited as a platform technology for the molecular farming of high-value proteins in plants.